

Notice of Allowability	Application No.	Applicant(s)	
	10/669,072	KROENKE ET AL.	
	Examiner	Art Unit	
	Jennifer M. Kennedy	2812	

-- **The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTO-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to the application filed 9/23/2003.

2. The allowed claim(s) is/are 1-3.

3. The drawings filed on 23 September 2003 are accepted by the Examiner.

4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some* c) None of the:

1. Certified copies of the priority documents have been received.

2. Certified copies of the priority documents have been received in Application No. _____.

3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

(a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
1) hereto or 2) to Paper No./Mail Date _____.

(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of
Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. Notice of References Cited (PTO-892)

2. Notice of Draftsperson's Patent Drawing Review (PTO-948)

3. Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 9/23/2003

4. Examiner's Comment Regarding Requirement for Deposit
of Biological Material

5. Notice of Informal Patent Application (PTO-152)

6. Interview Summary (PTO-413),
Paper No./Mail Date _____.

7. Examiner's Amendment/Comment

8. Examiner's Statement of Reasons for Allowance

9. Other _____.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ralph Locher on May 12, 2004.

The application has been amended as follows:

In claim 1, lines 10-11, "formed one of in and on" has been replaced with -- formed either in or on --.

In claim 1, line 16, "formed" has been replaced with -- performed--.

In claim 1, line 18, "determining the oxygen rate" has been replaced with -- determining the oxidation rate--.

In claim 1, line 20, "in dependence on" has been replaced with -- which depends on --.

In claim 1, line 23-24, "in dependence on" has been replaced with -- which depends on --.

In claim 2, line 1-2, "which further comprises forming the bonding layer, due to the RTP step, to contain" has been replaced with -- wherein after the RTP step the bonding layer contains --.

The following is an examiner's statement of reasons for allowance: the prior art, either singly or in combination, fails to anticipate or render obvious, the method including the steps of performing a RTP step in an oxygen atmosphere, after a ferroelectric deposition and before a ferro anneal has been performed, the RTP step including the steps of determining an oxidation rate of the bonding layer and the first diffusion coefficient of oxygen in a bonding material of the bonding layer which depends on temperature, determining a second diffusion coefficient of silicon in the material of the bonding layer which depends on temperature, calculating an optimum temperature range for the RTP from the claimed relationship, such that during the RTP step siliciding of the bonding layer takes place more quickly than its oxidation in combination with the other limitations of claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer M. Kennedy whose telephone number is (571) 272-1672. The examiner can normally be reached on Mon.-Fri. 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Niebling can be reached on (571) 272-1679. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

jm

jm

John F. Niebling
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